Manual 12-axis (6-axis) Optical Fiber Alignment Stage Unit Motorized 12-axis (6-axis) Optical Fiber Alignment Stage Unit

DAU-080M DAU-080A

Catalog W2032

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual **Stages**

Actuators & Adjusters

Motoeized **Stages**

Light Sources & Laser Safety

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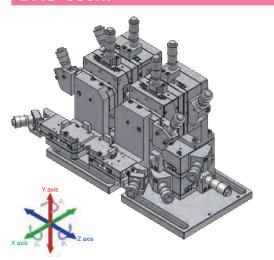
Alignment Interferometers

Inspection/ Observation

Bio-photonics

Laser Processing

DAU-080M



Manual 12-axis (6-axis) optical fiber alignment stage units. These units are best suited for alignment of passive devices such as optical waveguide and fiber array.

- Use of high resolution stages enables alignment with high rigidity and high efficiency.
- The magnetic mounting method and the positioning mechanism used in the holders ensure positional repeatability.
- A variety of compatible holders enables application extension associated with device change.

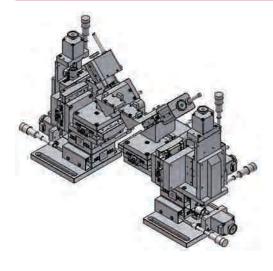
(Fiber holders, fiberrotation ho	lders, fiber array holders, etc.	1
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Part Number	Axis
DAU-080M-0	12 axes
DAU-080M-L	6 axes
DAU-080M-R	6 axes

Specifications							
Part Number	Axis	Х	Y	Z	θх	θ y	θz
DAU-080M-L	Travel	Coarse: ±6.5mm Fine: ±0.25mm	Coarse: ±6.5mm Fine: ±0.25mm	Coarse: ±6.5mm Fine: ±0.25mm	±2.5°	±2.5°	±5°
DAU-UOUWI-L	Resolution	Coarse: 0.01mm Fine: 0.0005mm	Coarse: 0.01mm Fine: 0.0005mm	Coarse: 0.01mm Fine: 0.0005mm	27.8″	27.8″	26.8″
DAU-080M-R	Travel	Coarse: ±6.5mm Fine: ±0.25mm	Coarse: ±6.5mm Fine: ±0.25mm	Coarse: ±6.5mm Fine: ±0.25mm	±2.5°	±2.5°	±5°
DAU-UOUWI-R	Resolution	Coarse: 0.01mm Fine: 0.0005mm	Coarse: 0.01mm Fine: 0.0005mm	Coarse: 0.01mm Fine: 0.0005mm	27.8″	27.8″	26.8″

DAU-080A





Motorized 12-axis (6-axis) alignment stage units with six pairs of symmetrical axes.

These units are best suited for alignment of passive devices such as optical waveguide and fiber array.

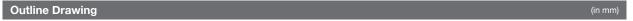
- Use of high resolution stages enables alignment with high rigidity and high efficiency.
- The magnetic mounting method and the positioning mechanism used in the holders ensure positional repeatability.
- A variety of compatible holders enables application extension associated with device change.

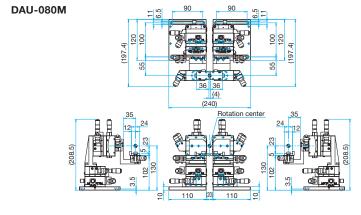
(Fiber holders, fiberrotation holders, fiber array holders, etc.)

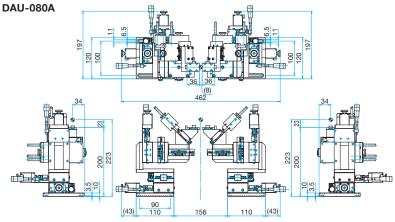
Part Number	Axis
DAU-080A-0	12 axes
DAU-080A-L	6 axes
DAU-080A-R	6 axes

Specifications								
Part Number	Axis		X	Υ	Z	θх	θу	θz
	Travel		30mm	30mm	30mm	±9°	±7°	±5°
	Resolution	(Full)	2µm	2µm	2µm	≑0.00229°	≑0.00198°	≑0.0217°
DAU-080A-L	nesolution	(Half)	1µm	1µm	1µm	≑0.00115°	≑0.00095°	≑0.0108°
	Positioning Accuracy		<6µm	<6µm	<6µm	-	-	-
	Positional Repeatability		<1µm	<1µm	<1µm	<±0.004°	<±0.004°	<±0.004°
	Travel		30mm	30mm	30mm	±9°	±7°	±5°
	Resolution	(Full)	2µm	2µm	2µm	≑0.00229°	≑0.00198°	≑0.0217°
DAU-080A-R	nesolution	(Half)	1µm	1µm	1µm	≑0.00115°	≑0.00095°	≑0.0108°
	Positioning Accuracy		<6µm	<6µm	<6µm	-	-	-
	Positional Repeatability		<1µm	<1µm	<1µm	<±0.004°	<±0.004°	<±0.004°





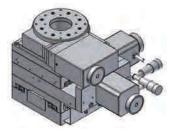




DAU-120A

Catalog W2034

Motorized 3-axis XY θ stage unit required for alignment of TOSA (UV cure adhesive mounting type)/ROSA.



- Optional configuarions include a gimballed mount for YAG laser welding as well as a Z axis stage.
- Use of the high stiffness and high performance stages enabled alignment with excellent repeatability.
- A variety of compatible holders enables application extension associated with device change.

(Fiber holders, fiberrotation holders, fiber array holders, etc.)

Part Number	Axis
DAU-120A	3 axes

Specifications					
Axis		Х	Υ	θ	
Travel		50mm	50mm	Move in the counterclockwise CCW direction to ∞, and stop at near 0 degree (-2.5°) in the clockwise CW direction.	
Desclution	(Full)	2µm	2µm	0.005°/pulse	
nesolution	(Half)	1µm	1µm	0.0025°/pulse	
Positioning		<6µm	<6µm	0.15°	
Positional Repeatability		<1µm	<6µm	0.02°	
	Axi Trav Resolution Positioning		$\begin{array}{c cccc} Axis & X & & & & & & & & \\ \hline Travel & & 50mm & & & & \\ \hline Resolution & & & & & & & & \\ \hline Resolution & & & & & & & & \\ \hline Positioning Accuracy & <6\mu m & & & & & \\ \hline \end{array}$	Axis X Y Travel 50mm 50mm Resolution (Full) 2μm 2μm (Half) 1μm 1μm Positioning Accuracy <6μm <6μm	

Outline Drawing	(in mm)
4-M3 depth 5 4-M4 depth 5 4-M4 depth 5 50	CAD CAD
4-φ4.2 (M5) 90 98counterbore depth 4.5	90

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